INTERNATIONAL SEARCH REPORT

International application No.

| | | PCI/UE | 2004/019501 |
|--|---|--|--|
| A. CLASSIFIC Int.Cl | CATION OF SUBJECT MATTER 7 F16C11/04, 11/10, G06F1/16, F | H04M1/02 | |
| · According to I- | ternational Patent Classification (IPC) or to both nationa | Lelassification and IPC | |
| | | | |
| B. FIELDS SE Minimum docur | EARCHED nentation searched (classification system followed by cl | assification symbols) | |
| Int.Cl | ⁷ F16C11/04, 11/10, G06F1/16, F | H04M1/02 | |
| Jitsuyo | | nt that such documents are included in the tsuyo Shinan Toroku Koho roku Jitsuyo Shinan Koho | ne fields searched 1996–2005 1994–2005 |
| Electronic data l | base consulted during the international search (name of o | data base and, where practicable, search t | erms used) |
| C. DOCUME | NTS CONSIDERED TO BE RELEVANT | | |
| Category* | Citation of document, with indication, where ap | propriate, of the relevant passages | Relevant to claim No. |
| X Y | JP 2003-172335 A (Yugen Kais 20 June, 2003 (20.06.03), Par. Nos. [0003] to [0012]; F (Family: none) | | 1,3 |
| Y . | JP 2002-227825 A (Ohashi Technica Inc. et al.), 14 August, 2002 (14.08.02), Par. Nos. [0015] to [0016]; Fig. 3 (Family: none) | | 2 |
| Α | JP 2-180321 A (NHK Spring Co 13 July, 1990 (13.07.90), Page 2, upper right column, l right column, line 14 (Family: none) | • | 1-3 |
| × Further do | ocuments are listed in the continuation of Box C. | See patent family annex. | |
| "A" document of to be of par | egories of cited documents: defining the general state of the art which is not considered ticular relevance | "T" later document published after the indicate and not in conflict with the applied the principle or theory underlying the | cation but cited to understand invention |
| "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) | | "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is | |
| "O" document re | eferring to an oral disclosure, use, exhibition or other means bublished prior to the international filing date but later than the | considered to involve an inventive combined with one or more other such being obvious to a person skilled in the "&" document member of the same patent | h documents, such combination ne art |
| | al completion of the international search il, 2005 (06.04.05) | Date of mailing of the international set 26 April, 2005 (26 | arch report .04.05) |
| | ng address of the ISA/ se Patent Office | Authorized officer | |
| Facsimile No. | 10/ | Telephone No. | |
| form PCT/ISA/2 | 10 (second sheet) (January 2004) | | |

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International application No.
PCT/JP2004/019501

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------------|---|-----------------------|
| A | JP 2003-56547 A (Nifco Inc.), 26 February, 2003 (26.02.03), Full text; Fig. 3 (Family: none) | 2 |
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